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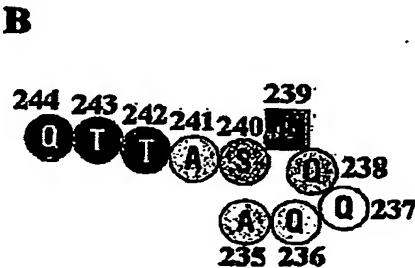
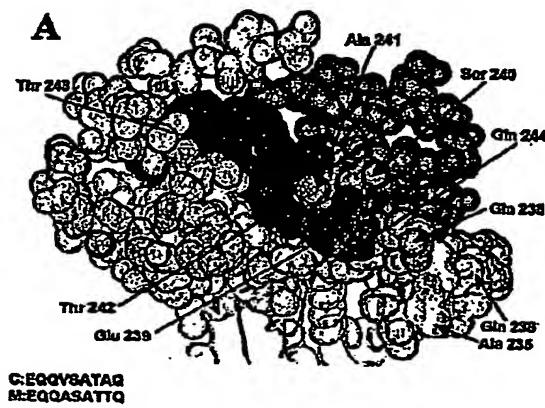
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(54) Title: MAPPING DISCONTINUOUS ANTIBODY OR APTAMER EPITOPE FOR PROTEIN STRUCTURE DETERMINATION AND OTHER APPLICATIONS



Proposed hairpin conformation of the C3 loop residues 235-240 in rhodopsin

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(57) **Abstract:** The present invention is directed to methods of mapping antibody or aptamer epitopes for use in a variety of utilities including the elucidation of the tertiary structure of proteins. A method of the invention, antibody imprinting, uses antibodies or aptamers against target proteins and random peptide probe libraries to map the epitopes of antibody binding sites on target proteins.